

Simplifying Expressions



① Simplify each expression by combining the like terms.

- a. $42x + 12x$ 54x b. $17w - 8w$ 9w
c. $25.42e - 23.3e$ 2.12e d. $88h + 30.5h$ 118.5h

② Simplify. Check that your expressions are equivalent. **Samples answers:**

- a. $12m + 24m$
 $= (12 + 24) * m$
 $= 36m$
- b. $90a - 30a$
 $= (90 - 30) * a$
 $= 60a$
- c. $14b + 15b + 8$
 $= (14 + 15) * b + 8$
 $= 29b + 8$
- d. $58d + 25 - 22d$
 $= 58d - 22d + 25$
 $= (58 - 22) * d + 25$
 $= 36d + 25$
- e. $3(14 + 15f) + 79$
 $= 42 + 45f + 79$
 $= 45f + 42 + 79$
 $= 45f + 121$
- f. $20(18 + 5t) - 47 + 28t$
 $= 360 + 100t - 47 + 28t$
 $= (360 - 47) + (100t + 28t)$
 $= 313 + (100 + 28) * t$
 $= 313 + 128t$

Practice

Insert =, <, or >.

- ③ -5 > -10 ④ 0.23 > 0.009 ⑤ -11 < 1 ⑥ 0.092 = 0.0920